



Arduino LCD Birthday Card

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PARTS:

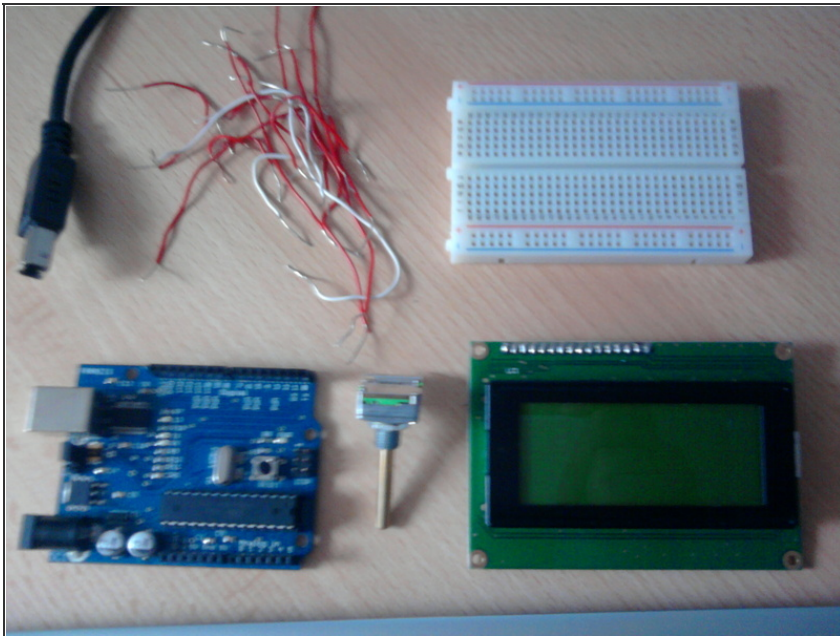
- [Arduino \(1\)](#)
- [LCD-Display \(1\)](#)
- [10K Potentiometer \(1\)](#)
- [Hook-up wire \(16\)](#)
- [Solderless breadboard \(1\)](#)

SUMMARY

Paper birthday cards are boring...

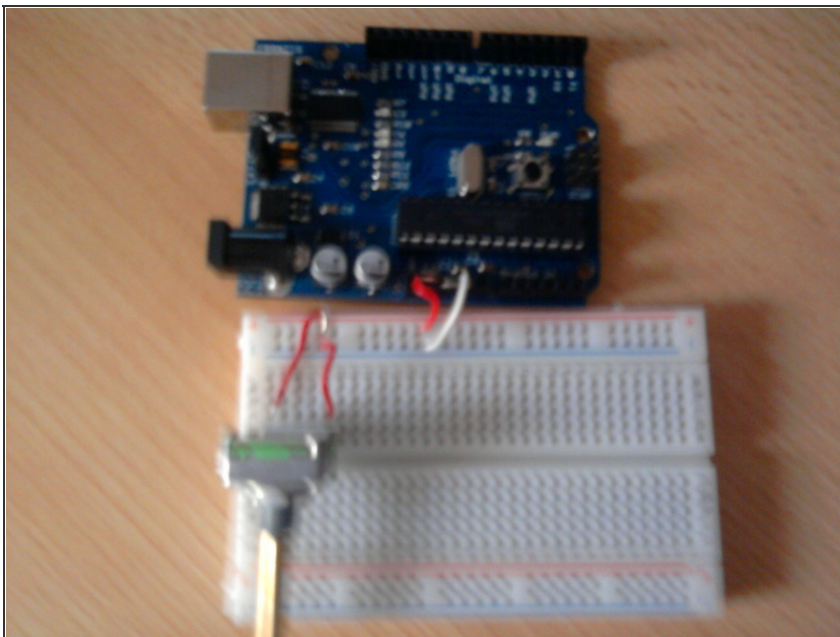
So let's build an "Arduino LCD birthday card!"

Step 1 — Arduino LCD Birthday Card



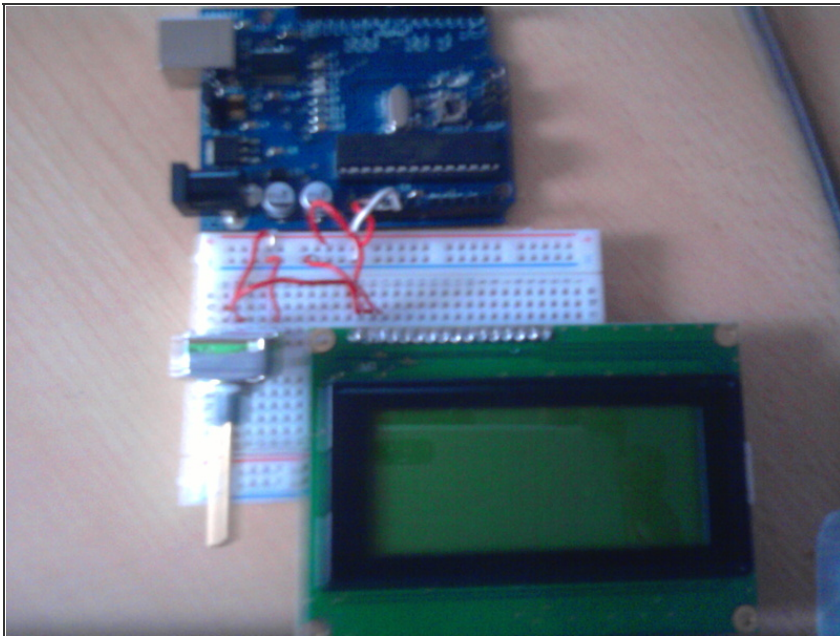
- Here are the materials you need:
- Arduino, LCD Display, 10K Potentiometer, USB cable, some hook-up wires and a solderless breadboard.

Step 2



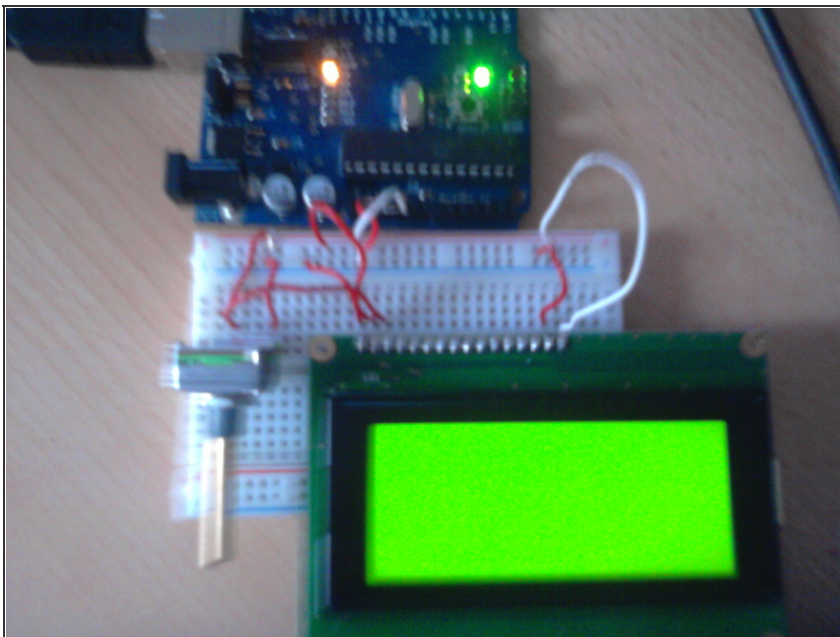
- First we connect the 5V and the Ground to the rails of the breadboard.
- Then we add the potentiometer and connect it to 5V and Ground.

Step 3



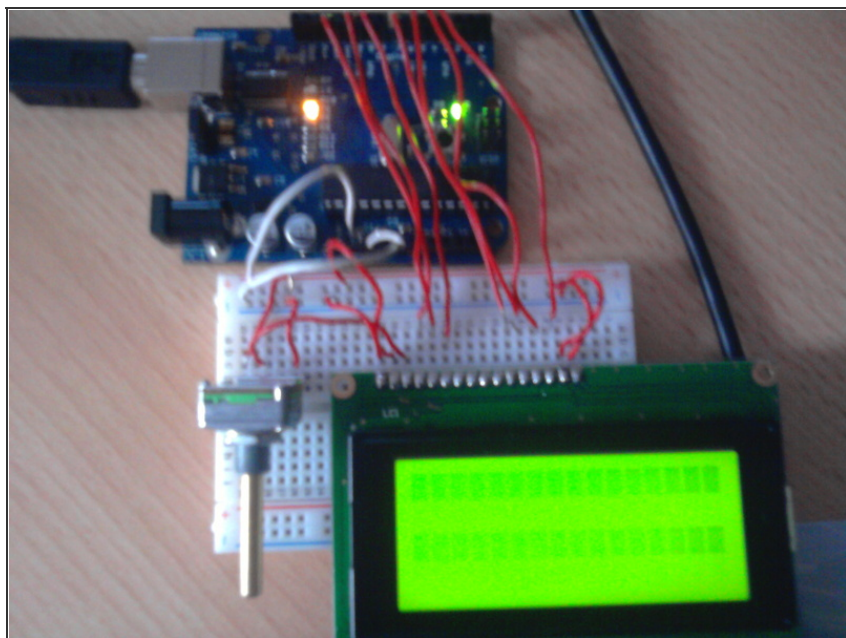
- Now we add the display and connect it to 5V (second pin) and Ground (first pin).
- We connect the third pin of the LCD to the "wiper" (middle pin) of the potentiometer.

Step 4



- Now turn the backlight on! Connect the sixteenth pin to Ground and the fifteenth pin to 5V.
- Plug in the USB cable and you should see the backlight light up!

Step 5



- Now it's time to connect the data pins! The list that follows is:
Display Pin → Arduino Pin
- 4 → 12
- 5 → 11
- 6 → 10
- 7/8/9/10 = No connection
- 11 → 7
- 12 → 6
- 13 → 5 and 14 → 4

Step 6

```

happybirthday | Arduino 0018
File Edit Sketch Tools Help
happybirthday
#include <LiquidCrystal.h>

LiquidCrystal lcd(12, 11, 10, 7, 6, 5, 4);

void setup() {
  lcd.begin(16, 4);
  lcd.setCursor(0,0);
  lcd.print("Dear Tom,");
  delay(1000);
  lcd.setCursor(0,1);
  lcd.print("I wish you");
  delay(1000);
  lcd.setCursor(0,2);
  lcd.print("good luck for");
  delay(1000);
  lcd.setCursor(0,3);
  lcd.print("your birthday!");
}

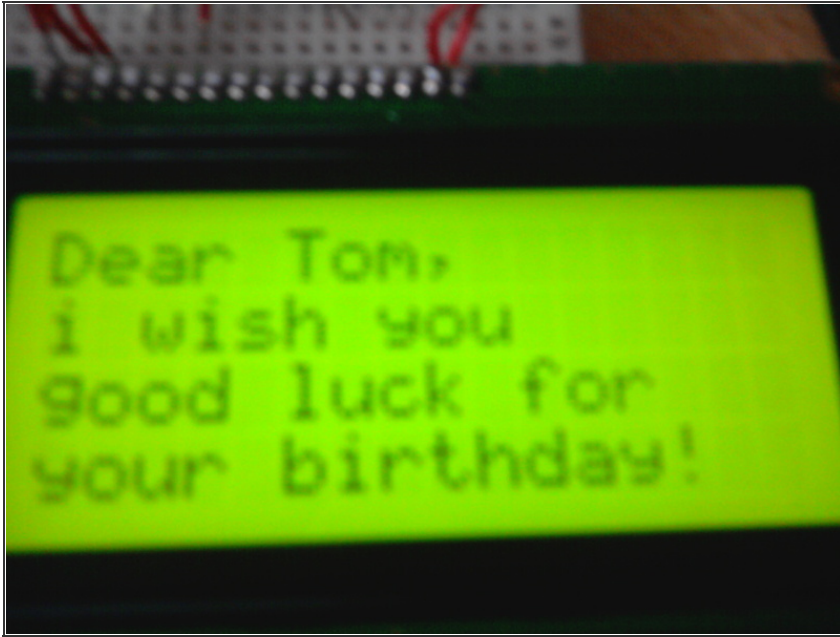
void loop() {
}
    
```

Done Saving.

Binary sketch size: 2268 bytes (of a 14336 byte maximum)

- Now it's time to program the Arduino! Start with the code in the picture at left.

Step 7



- Now it's finished! Print a sweet frame, cut it out and put it over the LCD.

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